

StoraEnso

Stora Enso investor kit Q1 2024

The renewable materials company



Disclaimer

It should be noted that Stora Enso and its business are exposed to various risks and uncertainties and certain statements herein which are not historical facts, including, without limitation those regarding expectations for market growth and developments; expectations for growth and profitability; and statements preceded by "believes", "expects", "anticipates", "foresees", or similar expressions, are forward-looking statements. Since these statements are based on current plans, estimates and projections, they involve risks and uncertainties which may cause actual results to materially differ from those expressed in such forward-looking statements. Such factors include, but are not limited to: (1) operating factors such as continued success of manufacturing activities and the achievement of efficiencies therein, continued success of product development, acceptance of new products or services by the group's targeted customers, success of the existing and future collaboration arrangements, changes in business strategy or development plans or targets, changes in the degree of protection created by the group's patents and other intellectual property rights, the availability of capital on acceptable terms; (2) industry conditions, such as strength of product demand, intensity of competition, prevailing and future global market prices for the group's products and the pricing pressures thereto, price fluctuations in raw materials, financial condition of the customers and the competitors of the group, the potential introduction of competing products and technologies by competitors; and (3) general economic conditions, such as rates of economic growth in the group's principal geographic markets or fluctuations in exchange and interest rates. All statements are based on management's best assumptions and beliefs in light of the information currently available to it and Stora Enso assumes no obligation to publicly update or revise any forward-looking statement except to the extent legally required.

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StoraEnso

Stora Enso in brief

Stora Enso is one of the largest private forest owners in the world, and a leading provider of renewable products in packaging, biomaterials and wooden construction.

Stora Enso shares are listed on NASDAQ OMX Helsinki and Stockholm and traded in the USA as ADRs and Ordinary Shares.



€9.4 billion in 2023





Market cap: ~€10 billion

Our foundation for a renewable future and sustainable business



Foundation



Forest

Pulp





Traditional wood products

Key strategic growth areas



Renewable packaging



Sustainable

building

solutions

Renewable biomaterials innovations

Leading market positions in all divisions



Forest

One of the largest private forest owners in the world

Traditional Wood Products

Sawn wood #1 in Europe

Pulp

Fluff pulp #1 in Europe

Consumer Board

LPB #1 Globally FSB #1 in Europe FBB #3 in Europe CUK #1 in Europe SBS #2 in Europe

Containerboard

Kraftliner #3 in Europe

SC fluting #3 in Europe

Recycled containerboard* #8 in Europe

Building Solutions

CLT #1 Globally

Packaging solutions

Corrugated boxes top three in Nordics

Corrugated boxes top two in Benelux

Capacities by division



Division

Capacity 1,000 t

Packaging materials

Consumer board	3,520
Containerboard	1,820
Barrier coating	655
Paper*	740

Packaging Solutions 1,855 Mm2

Wood products

Sawing	5.1 Mm3
Further processing	2.2 Mm3
Building solutions	495 m3**
Pellets	460

Division

Capacity 1,000 t

Biomaterials

Softwood and fluff pulp	1,175
Hardwood pulp	1,325

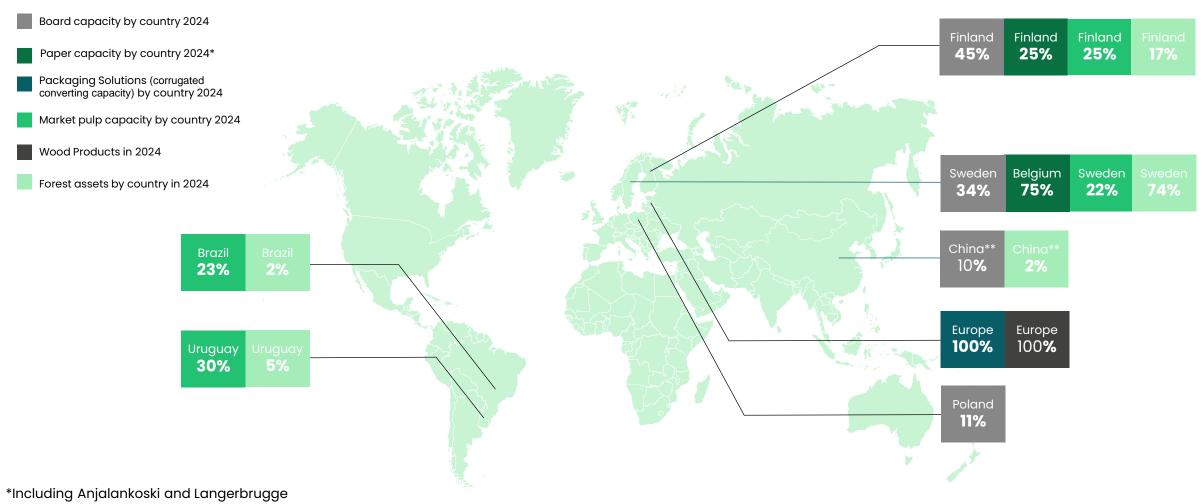
Group forest assets

Total area	2.0m ha
Productive area	1.6m ha

*One of the two paper machines (250kt) in Anjalankoski was closed in Q4 2023, Ostroleka PM4 was permanently closed in Q3 2023 **CLT site in Ždírec, Czech Republic, in the ramp-up phase

Global capacity and forest asset distribution

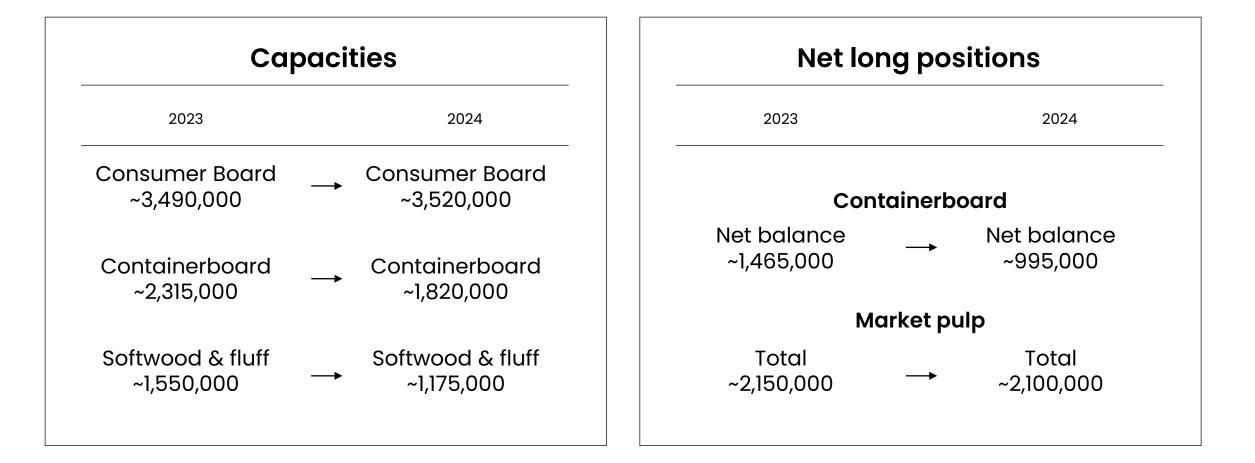




**Ongoing divestment process for Beihai site and plantations in China

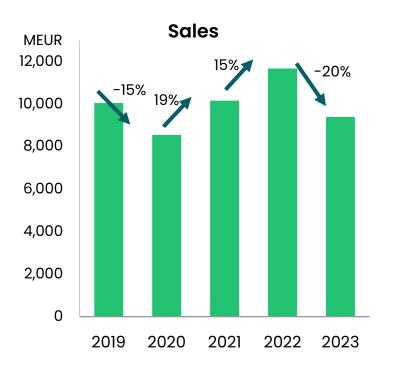
Changes in capacities and long positions 2023-2024

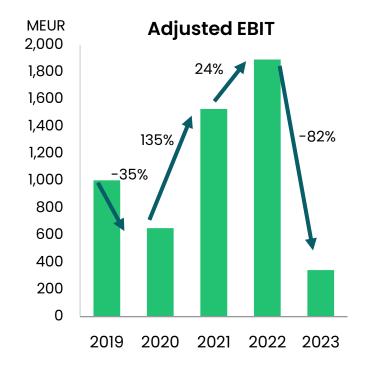


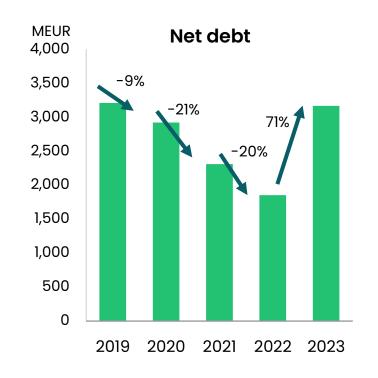


Group financial performance annually



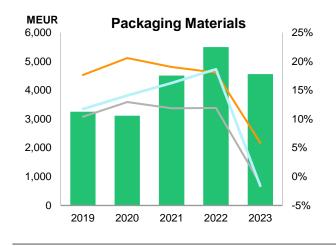


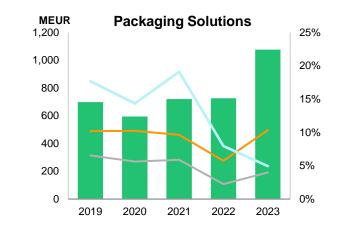


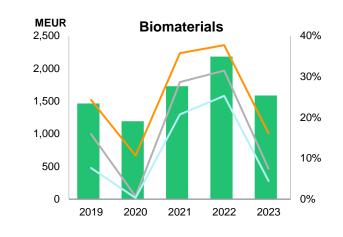


Annual financial performance by division

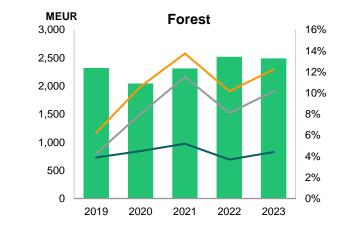














Strategic growth areas represented 56% of Group sales in Q1/2024



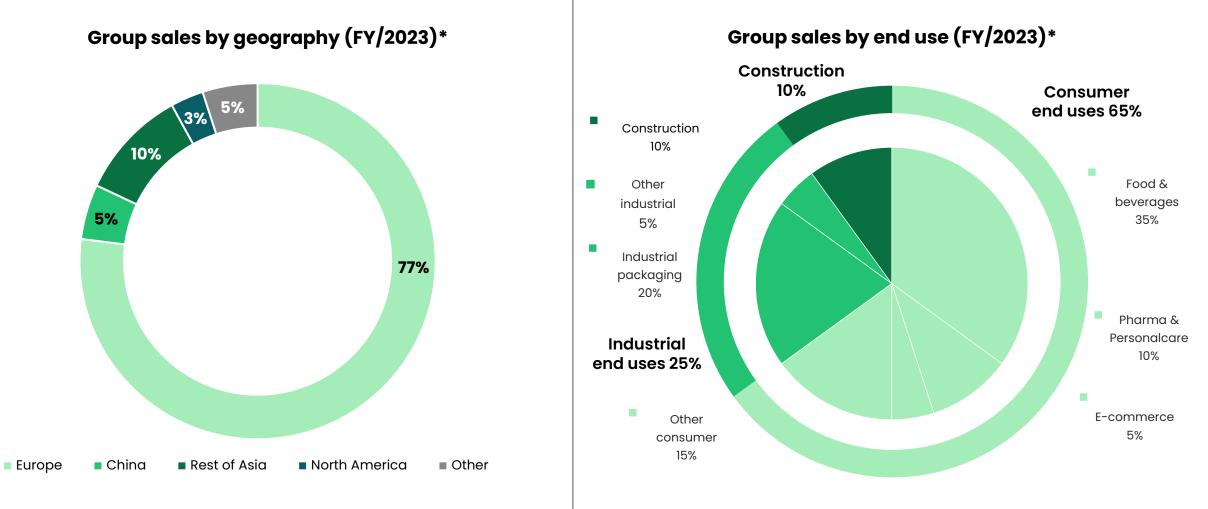


Calculations are based on external sales

*Strategic growth areas include Packaging Materials, Packaging Solutions, Biomaterials Innovations (part of Biomaterials), Building Solutions (part of Wood Products), (and emerging businesses, part of Segment Other) Foundation businesses include Pulp in Biomaterials, Traditional Wood Products in Wood Products and Forest



Stora Enso – End use geographies and segments

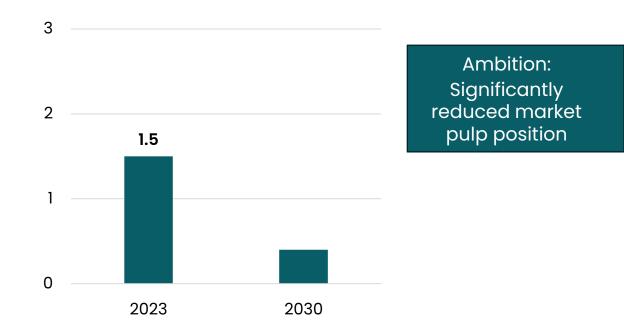


Ambition to significantly reduce earnings cyclicality and long market pulp position



- Exiting paper business
- Growth in packaging with increased integration of eucalyptus pulp
- Developing a more value-add pulp product mix
- Growing the share of building solutions

Group net standard* pulp position for the next twelve months (million tonnes)



*Standard pulp excludes fluff and unbleached kraft pulp, total long market pulp position is 2.1 million tonnes for the next twelve months

We make a positive climate impact

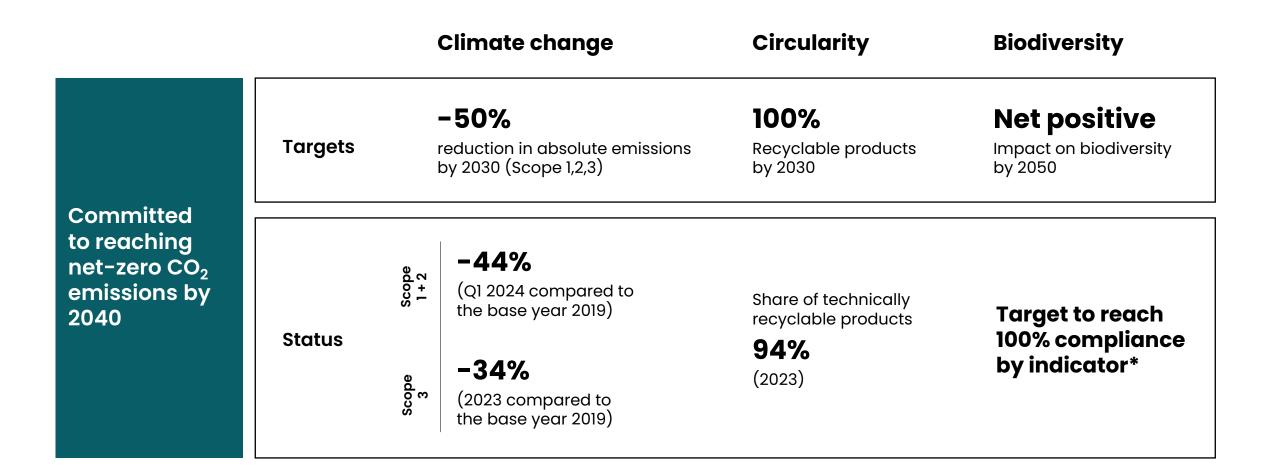




Calculated by the Swedish University of Agricultural Sciences (SLU) based on Stora Enso's forest and production figures: Climate effects of a forestry company – including biogenic carbon fluxes and substitution effects

Our sustainability performance





Stora Enso ~2030 ambition*



+30% sales

vs 2021 (excl. inflation)

15% operational EBIT margin over a cycle

Packaging >60% of sales

Wood Products

>40% of sales from Building solutions

+75% operational EBITDA over a cycle**

Earnings cyclicality reduced by half**

No paper exposure

Significantly reduced market pulp exposure

New revenue streams

1 BEUR sales

from Biomaterials innovation

5-10 TWh of wind power on own forest land

*The above 2030 ambition should not be considered as targets or guidance for 2030 **Compared to 2016-2021. Measured as standard deviation over a cycle



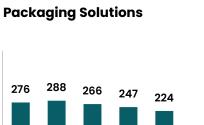
Divisions

Division overview (sales, adj. EBIT and adj. EBIT margin)



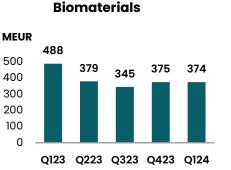


Sales

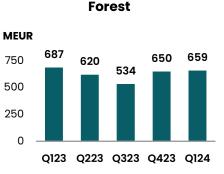


Q223 Q323 Q423 Q124

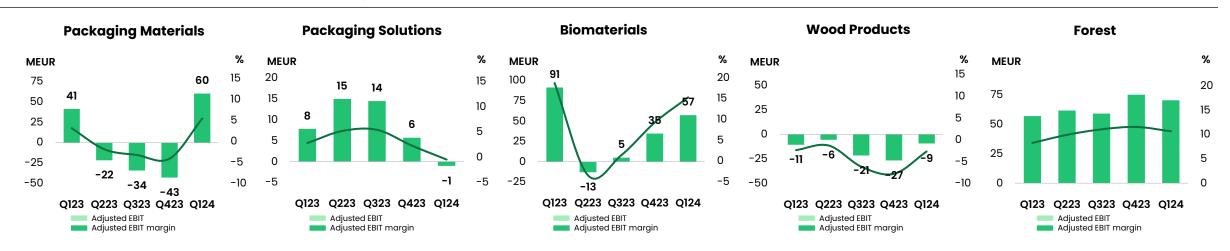
Q123







Adjusted EBIT and Adjusted EBIT Margin





Packaging

Packaging Materials Packaging Solutions

ORGAN BLACK BEANS

Probiotic

Gustoso Fusilli

BLACK TEA





Packaging Materials division in brief

- Aims to lead the development of circular packaging, providing premium packaging materials based on virgin and recycled fiber
- Helping customers to replace fossil-based materials with low-carbon, renewable and recyclable alternatives for their food and drink, pharmaceutical or transport packaging
- World-class cost-competitive integrated production sites close to raw material sources
- Main products: consumer board, containerboard and barrier coatings
- The customers are converters, brand owners and retailers





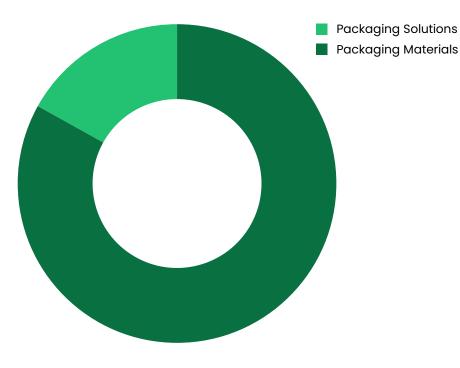
Packaging Solutions in brief

- Develops and sells premium fiber-based packaging products and services
- Innovation collaboration throughout the whole value chain for developing renewable packaging materials
- High-end, eco-friendly packaging products which are used by leading brands across multiple market sectors, including the retail, e-commerce and industrial sectors
- The portfolio includes converting corrugated board and cartonboard
- Operations in Northern, Central and Western Europe as well as in China

We have the broadest portfolio in the industry



Sales mix Q1 2024



Foundation





Liquid packaging Foo board Boo

Food Service Board

Testliner



Unbleached Kraft

Coated

SAAE





Solid Bleached Sulphate **Folding Boxboard**

Containerboard



Kraftliner



Semi chemical fluting

Packaging solutions



Corrugated packaging and new businesses

Leading market positions in Europe and global reach



- Top 10 largest global supplier of packaging board
- **Premium products and services** for demanding end uses
- Kraftliner and SC fluting global premium niche
- Corrugated packaging market fragmented
- **Capacity increases** through organic and acquisitive growth

Consumer Board Stora Enso's market position
LPB #1 Globally
FSB #1 in Europe
FBB #3 in Europe
CUK #1 in Europe
SBS #2 in Europe

Containerboard

Kraftliner #3 in Europe

SC fluting #3 in Europe

Recycled containerboard* #8 in Europe

Packaging solutions

Corrugated boxes top three in Nordics

Corrugated boxes top two in Benelux

Integration benefits in core regions



Nordics and Baltics

- Premium carton and liquid packaging board
- Virgin fiber containerboard and converting
- Megasites for economies of scale and integration benefits
- Smaller production sites with niche product concepts
- Optimising product mix

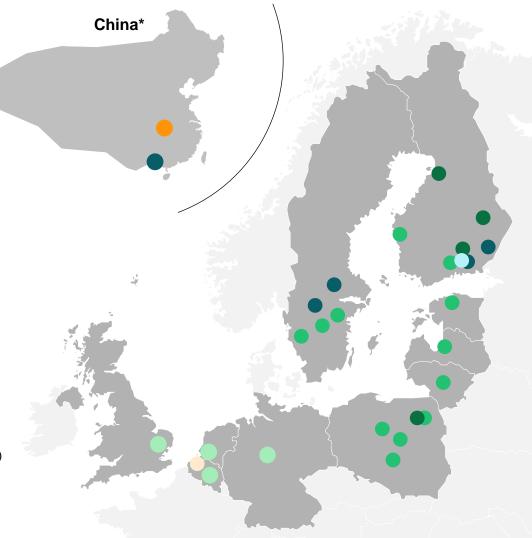
Eastern and Western Europe

- Recycled containerboard and converting in Poland
- Beverage carton recycling in Poland
- Potential to use more containerboard
 internally

*Ongoing divestment process for Beihai site and plantations in China

**One of the two paper machines (250kt) in Anjalankoski was closed in Q4 2023





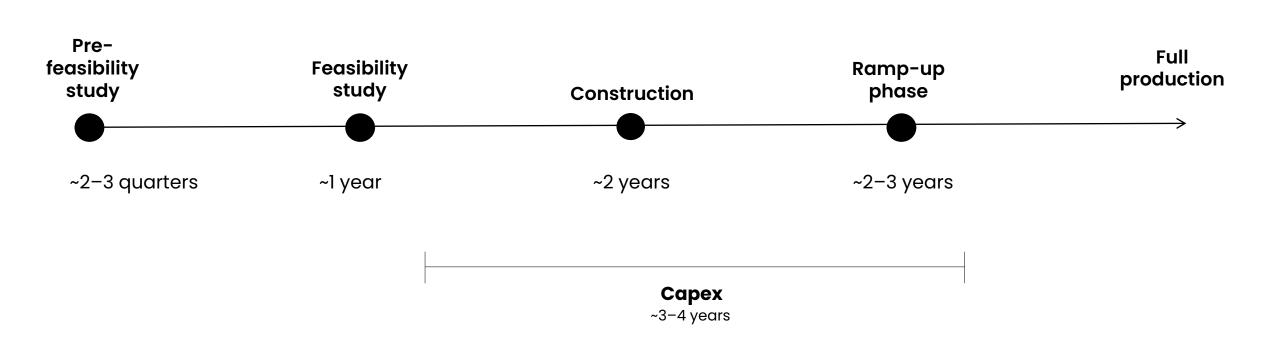
Construction of a new consumer board line at the Oulu site proceeding according to plan

- Investing ~€1bn in 2022 2025 to convert the second idle paper machine at our Oulu site in Finland
- Production estimated to start early 2025
- Starting consumer board line for folding box board and coated unbleached kraft to a total capacity of 750,000 tonnes/y
- Expected annual sales ~€800m
- Reducing earnings volatility by lowering the Group's market pulp exposure by ~250,000 tonnes/y
- Target end-use segments: food and drink, frozen and chilled, mainly in Europe and North America



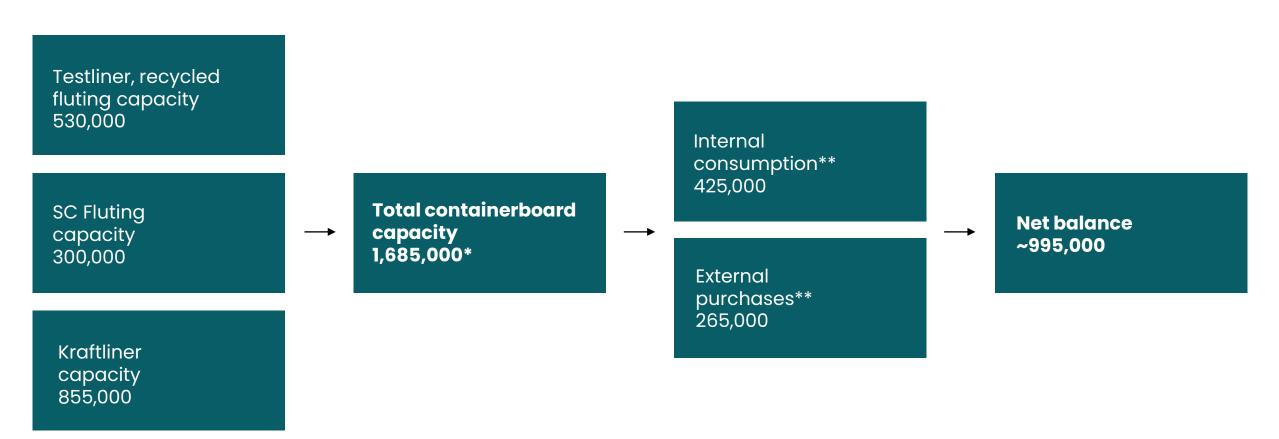
Planning and implementation of growth projects





We are committed to reduce our long position in containerboard





*Excluding Ostroleka sack and wrapping paper capacity of 130,000 tonnes **Based on rolling 12 months estimate

Packaging ~2030 ambition



>60% sales increase vs 2021	Highest industry margins	Leader in sustainable packaging design and innovation	100% recyclable products (technically)
EBIT >2x vs 2021	Fully integrated board capacity with internal pulp	50% carbon footprint reduction	Full adoption of Circular Design Guidelines (2025)



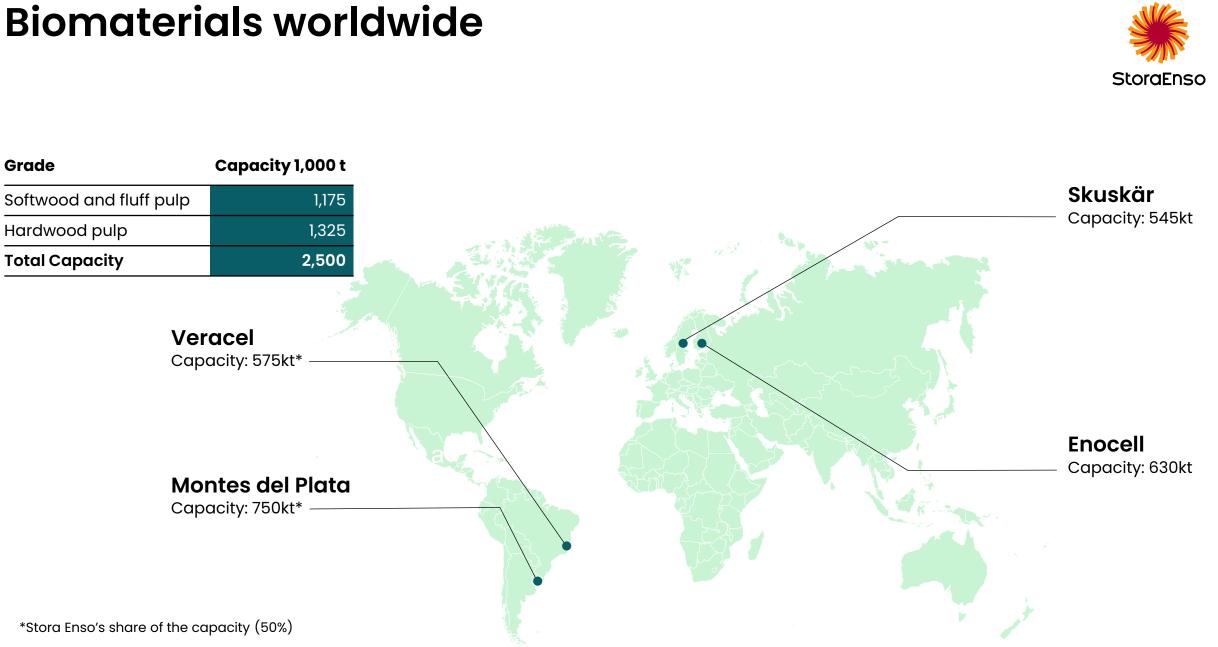
Biomaterials



Biomaterials division in brief



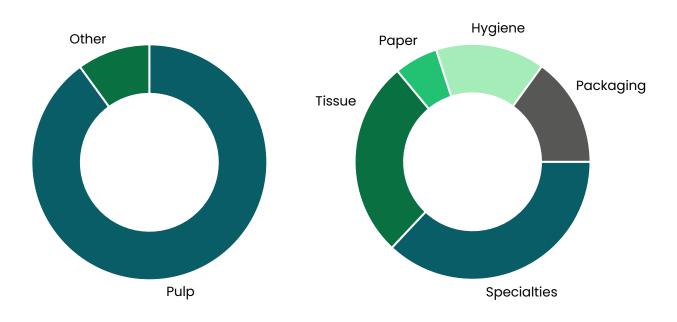
- Biomaterials division meets the growing demand for bio-based solutions to replace fossil-based and hazardous materials
- We use all fractions of biomass to develop new solutions
- Our pulp offering encompasses a wide variety of grades to meet the demands of board, paper, specialty paper, tissue and hygiene product producers, as well as materials from process side streams, such as tall oil and turpentine from biomass
- Our work to replace fossil-based materials includes novel applications such as Lignode and bio-based binders



Our products and sales mix form the foundation for biomaterial innovation



Sales mix Q1 2024

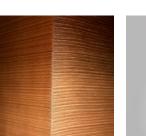


Pulp sales by end use Q1 2024

Pulp Market size €45 billion, CAGR +2%









Bleached kraft pulp

Fluff pulp Unbleached kraft pulp

Biochemicals

Innovative biomaterials



Lignin

Bio-binders

Significant growth opportunity in biomaterials innovation



Market size	€10 billion	€20 billion
Long-term EBITDA margin potential	50%	40%
CAGR	Anode material +25-30% CAGR	Bio-binders +3-4% CAGR

Reducing carbon footprint with bio-based binders

High bonding strength and water resistance

Replacing fossilbased chemicals

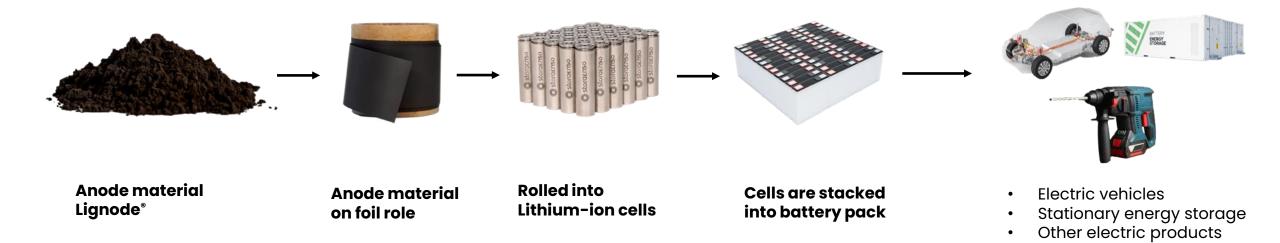
Market €20 billion

Current share <1%

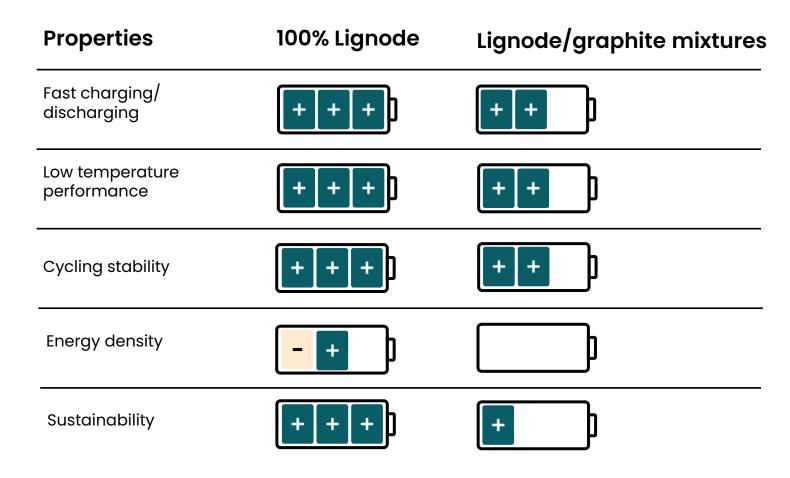


Lignode replaces non-renewable graphite in batteries





Higher performance and faster charging compared to pure graphite





Partnering across the battery value-chain to make electrification more sustainable



Battery value-chain with Stora Enso announced collaborations

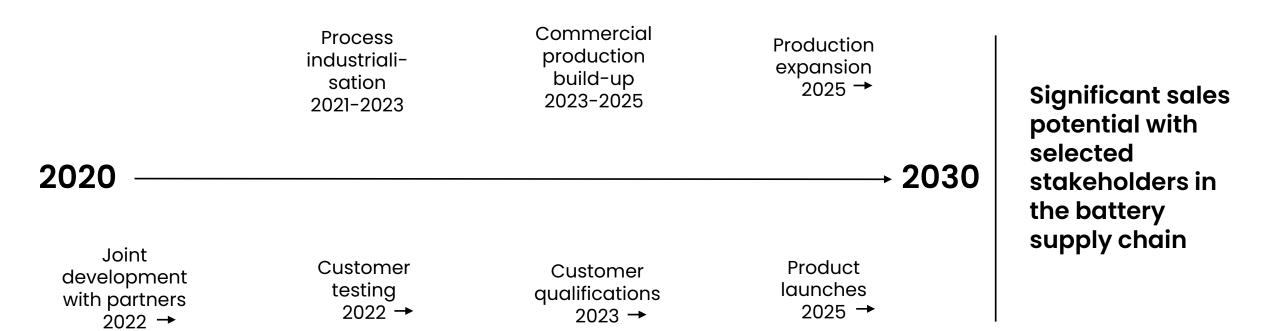


E-Mobility

Polestar 0 Zero. All the way

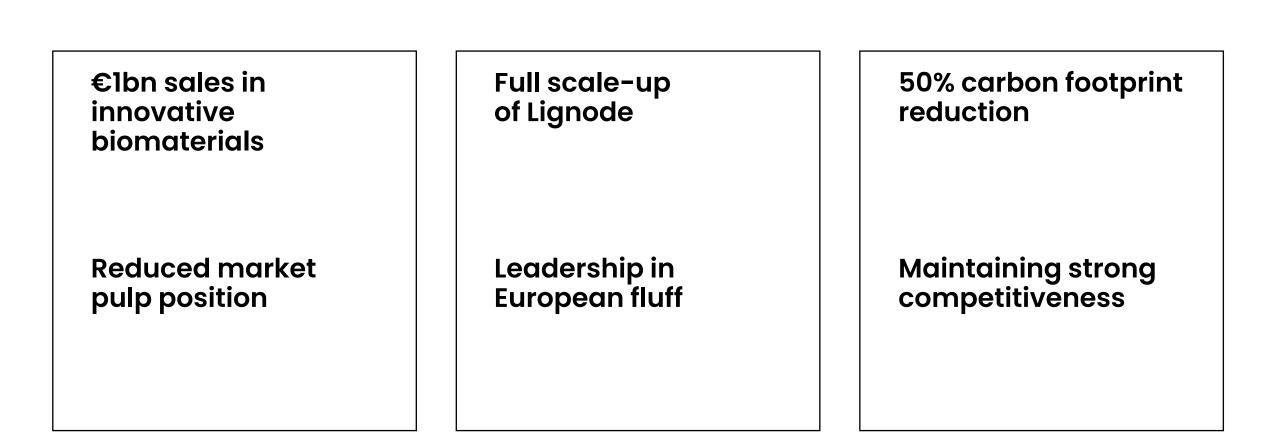
We are accelerating the development and scale-up of Lignode with customers and partners





Biomaterials ~2030 ambition







work

Management of the owner owner owner owner owne

Wood Products

Wood Products division in brief





- Largest sawn wood producer in Europe and a leading provider of sustainable wood-based solutions for the construction industry globally
- The growing Building Solutions business offers building concepts to support low-carbon construction and eco-friendly designs
- Developing digital tools to simplify the design and construction of building projects with wood
- High demands with regard to safety, quality, design and sustainability
- The customers are mainly merchants and retailers, industrial integrators and construction companies

Our two strategic pillars enable financial stability and resilience



Sales mix Q1 2024



Traditional wood productsBuilding Solutions

Traditional wood products



Classic sawn



Classic planed

planed



Wooden industrial Pellets window and door components 3-4% annual market growth rate long-term

Market size: >€100 billion

Building Solutions



Crosslaminated timber (CLT)



Laminated Veneer Lumber (LVL)



Construction beams



Services and tools

<10% annual market growth rate long-term

Market size: >€1 billion for wooden multi-storey buildings

Climate change can be mitigated with wood construction

CO₂ savings for every m³ built with wood

-1 tonne CO₂

-2.5 tonnes CO₂

vs. concrete

vs. steel

We can significantly cut emissions in the construction sector by using renewable materials



Our market position and sustainability megatrends support our profitable growth ambitions



Traditional wood products markets

Stora Enso's market share (%)

4%

Europe

6% Oceania

2% Asia

6% MENA

>1%

North America

Stora Enso's global CLT market share 2023

13%

Traditional wood products

- Largest supplier of sawn wood in Europe
- Global reach with ~40% sales in overseas markets

Building Solutions

- The world's largest CLT producer
- One of the leaders in LVL in the European market

Leading provider of wood-based building solutions

CLT production

LVL production





- Close to strategic European markets •
- Industrial infrastructure
- Local supply of raw material

Annual capacity

Sawing	5.1 million m ³
Further processing	2.2 million m ³
CLT	410,000 m ^{3*}
LVL	85,000 m ³
Pellets	460,000 t

*CLT site (120,000 m3) in Ždírec, Czech Republic, in the ramp-up phase

Traditional wood products: we have improved our profitability and competitiveness for profitable growth

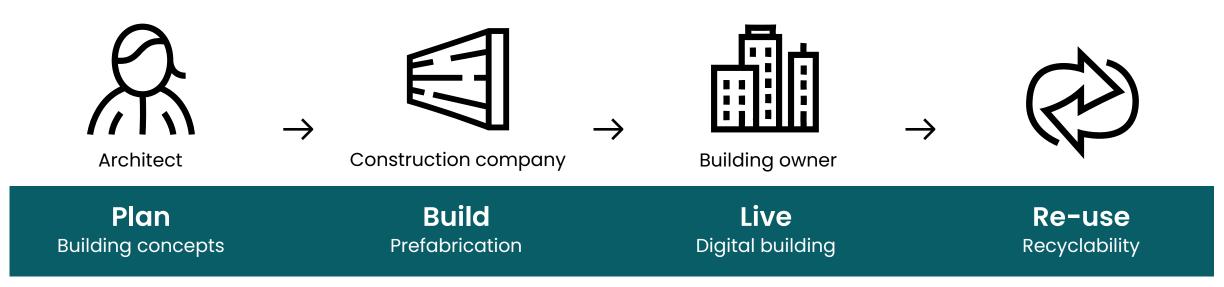
- 1. Demand growth: megatrend for wooden buildings continues
- 2. Wood supply: competitive sourcing in Nordics and Central Europe
- **3. Efficiency:** largest operational process efficiency programme completed with main improvements in safety, productivity and raw material efficiency
- 4. Integration benefits: fiber supply for building solutions and packaging materials

Opportunity for profitable growth: capacity increase



Building Solutions: accelerated profitable growth with solutions across the building lifecycle





Prefabrication example: Fully-finished building elements to reduce manual, costly workload on the construction site







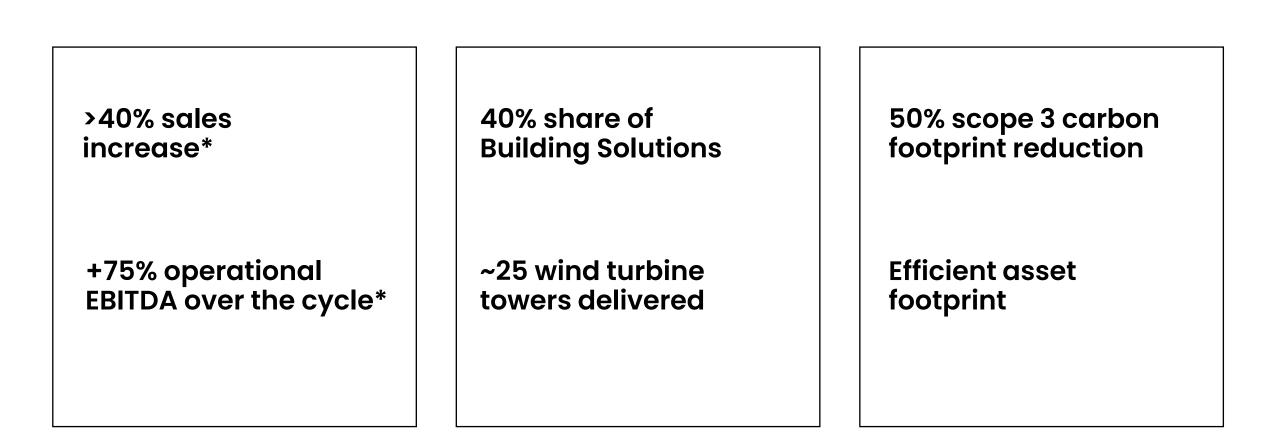


Commodity, off-the-self _____

Bespoke, delivered just in time \longrightarrow

Wood Products ~2030 ambition





Forest

StoraEnso

Forest division in brief





- The division creates value with sustainable forest management, competitive wood supply to Stora Enso's production units, and innovation
- Our forests are the foundation for Stora Enso's renewable
 offerings
- The division includes our Swedish forest assets and the 41% share of Tornator as well as wood supply operations in Finland, Sweden and the Baltics
- Stora Enso is one of the biggest private forest owners in the world

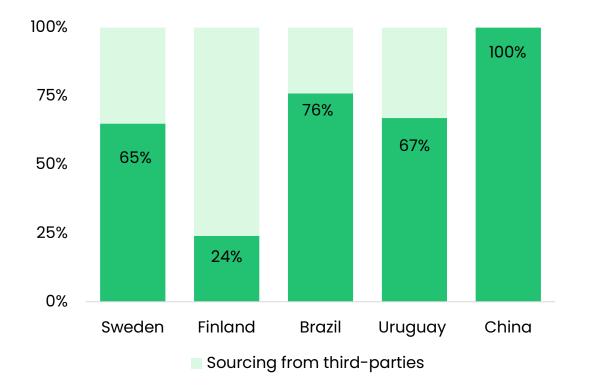
We create value through our forest assets

- ~36% self-sufficiency of wood supply from own forest assets and long-term agreements
- Secure tactical flexibility through wood sourcing
- Operate the largest wood sourcing organisation in the Baltic Sea region
- Increased harvesting to secure wood flows to Stora Enso sites
- Fiber* ~30% of total Group costs

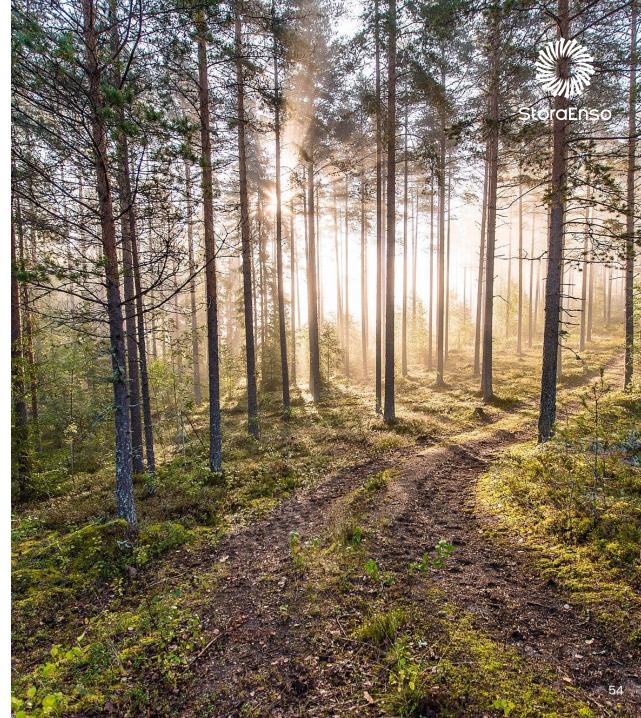


~36% self-sufficiency of wood supply from own forest assets and long-term agreements

Wood self-sufficiency by country in 2023



Stora Enso controls approximately 36% of its wood raw material consumption globally. Harvesting in own forests and sourcing from long-term agreements amounted to 10.2 million m³ in 2023. Wood deliveries to Stora Enso sites were 28.1 million m³ in 2023.



The forest presents an endless source of value

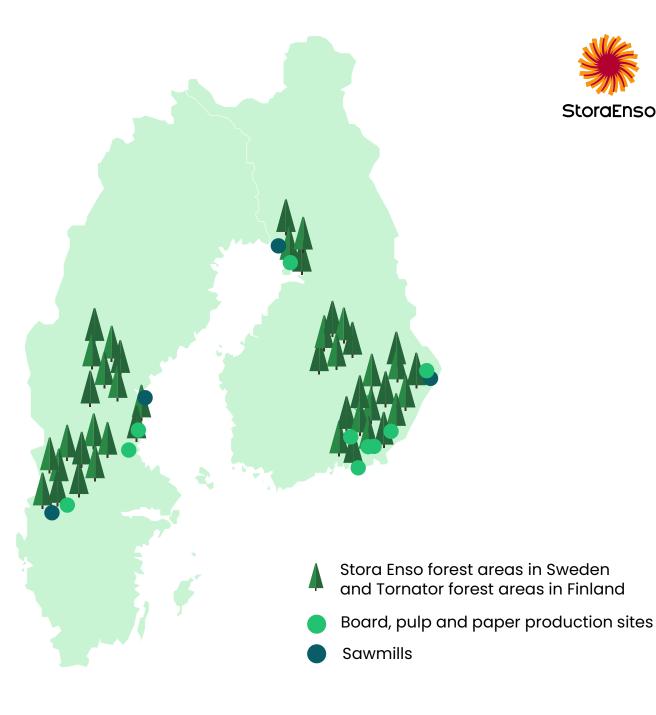


- Supports a strong balance sheet with increasing value
- Lowers financial and strategic risks
- Foundation for development of sustainable forest
 management
- Supports our growth strategy through cost efficient wood flows and resource efficiency
- Advances our innovation and R&D work
- Potential for additional revenue streams in renewable energy production (solar and wind)



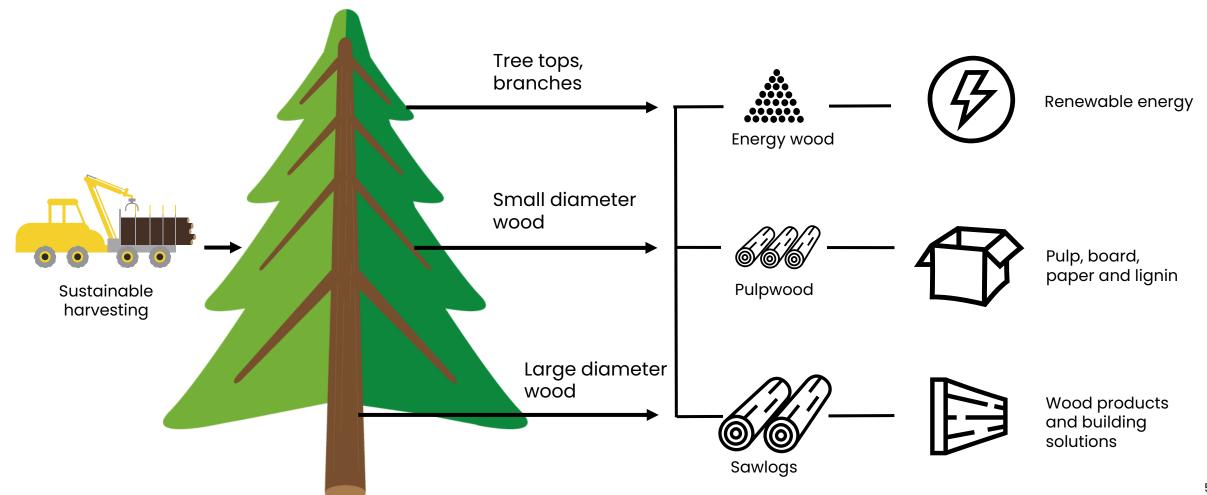
We hold our forest assets close to our production to ensure flexibility and a low carbon footprint

- Enables further control of our wood supply
- Establishes a resilience to changes in the market environment
- Secures availability and lowers wood costs for the Group
- Provides tactical flexibility in wood supply
- Minimises the logistical carbon footprint and lowers transportation cost



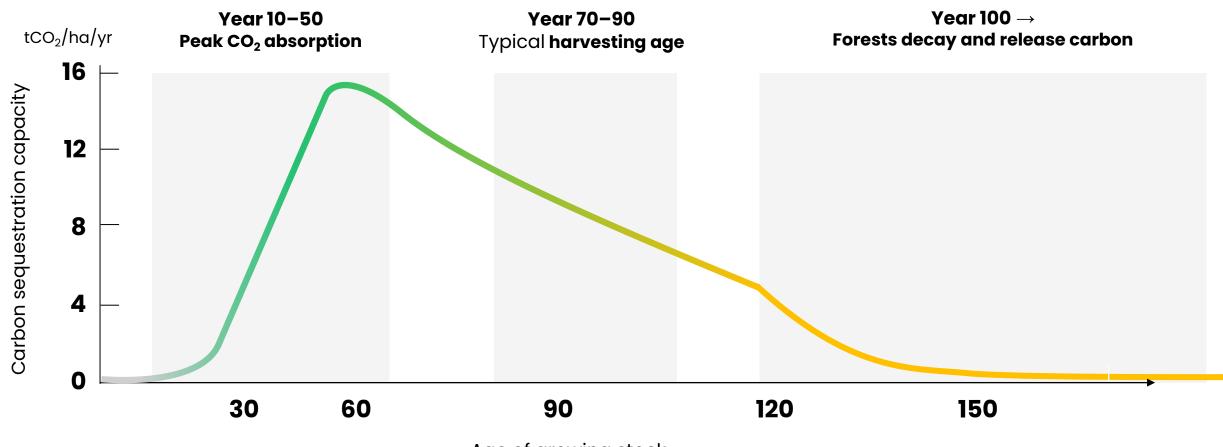
We use all parts of each harvested tree ensuring optimal use





Only growing forests remove CO₂





Carbon sequestration capacity of growing stock

Age of growing stock

We are committed to step up our work to safeguard biodiversity

99%

of the lands we own or manage covered by forest certification schemes

\downarrow

Science-based indicators for landscapes, habitats and species

\downarrow

Net-positive impact on biodiversity by 2050



Precision forestry enables a more and efficient forest management

Forest biodiversity



Forest health Forest growth

Active land management provides new revenue streams

Active landowner

- Selected land sales
- Land swaps to optimise the land holdings

Wind power

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- Land leasing
 - Expansion potential

Other revenue streams

- Hunting licences and fishing rights
- Gravel sales

Future potential

- Carbon credits
- Solar power



Unlocking wind power potential with strategic initiatives



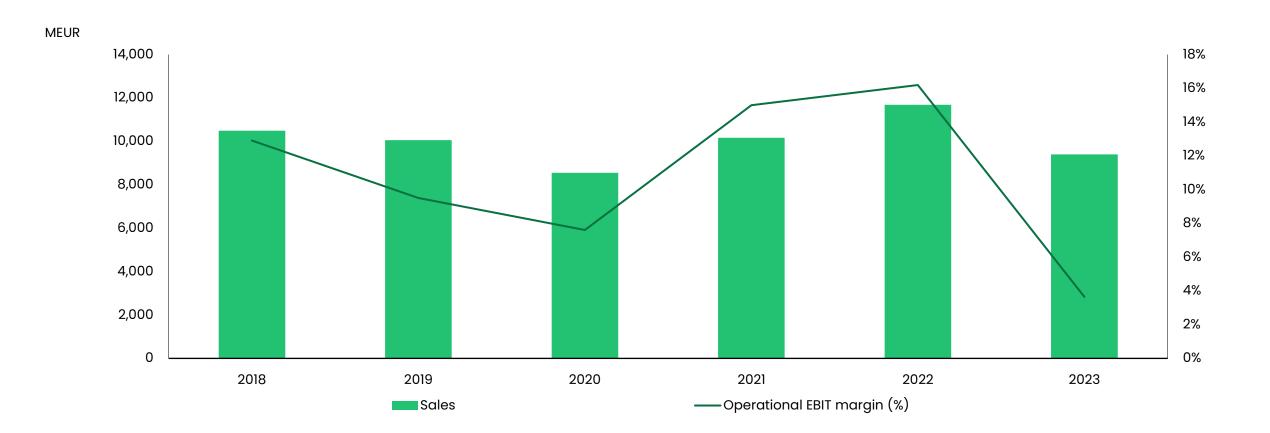
Our ambition is to develop and significantly increase our involvement in wind energy on our land from the current 1 TWh The **total potential for wind power production** on Stora Enso's forest land in Sweden is estimated at **75 TWh** of which **~30%** can be realised long-term Our aim is to reach 5–10 TWh of wind power production, ramping up from 2030 onwards Our recent agreement with OX2 on a **joint wind power development project** of circa 1,000 MW is a step towards our ambition



Group's financial performance, dividend policy, ownership and top management

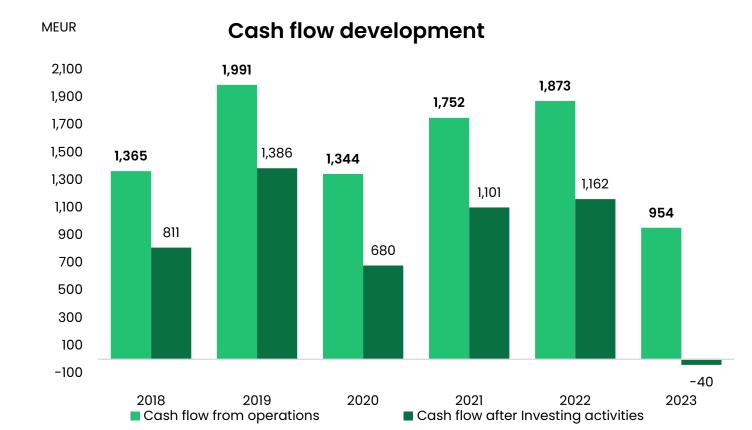
Sales and operational EBIT margin development





Cash flow over the cycles

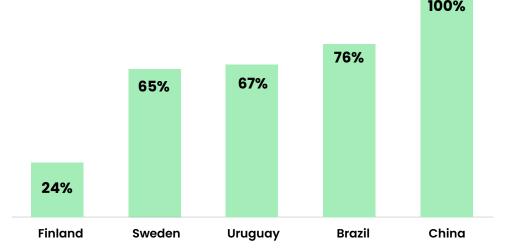


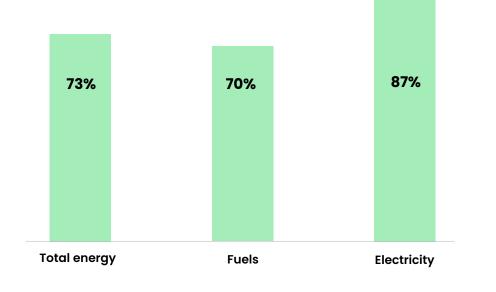


- Cash flow from operations decreased to €954 (€1,873) million in 2023
- Cash flow after investing activities was €-40 (1,162) million in 2023

Stora Enso's energy self-sufficiency 73% FY/2024

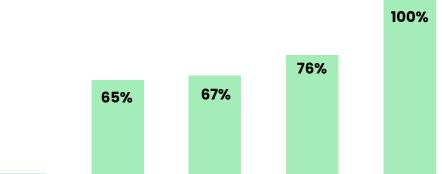
Group wood self-sufficiency by country 2023





Group energy self-sufficiency excl. JVs (2024e)





We drive shareholder value through a focused and disciplined capital allocation



Allocating capital for sustainable profitable growth



Returning capital

to shareholders

Organic growth

CAPEX at or below depreciation over the cycle

M&A

Selective M&A to support growth in both Packaging and Wood Products

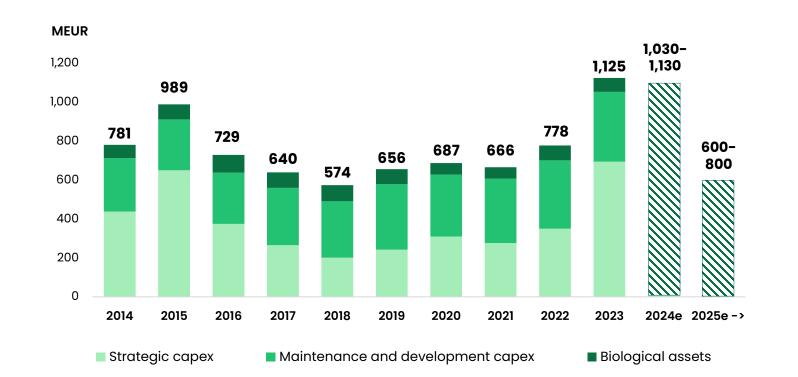
Strong cash flow generation

Dividends

To distribute 50% of EPS excluding fair valuation over the cycle

Committed growth investments proceeding as planned

Returning to average capex range of €600 - 800 million after 2024





Average capex split for 2014–2024

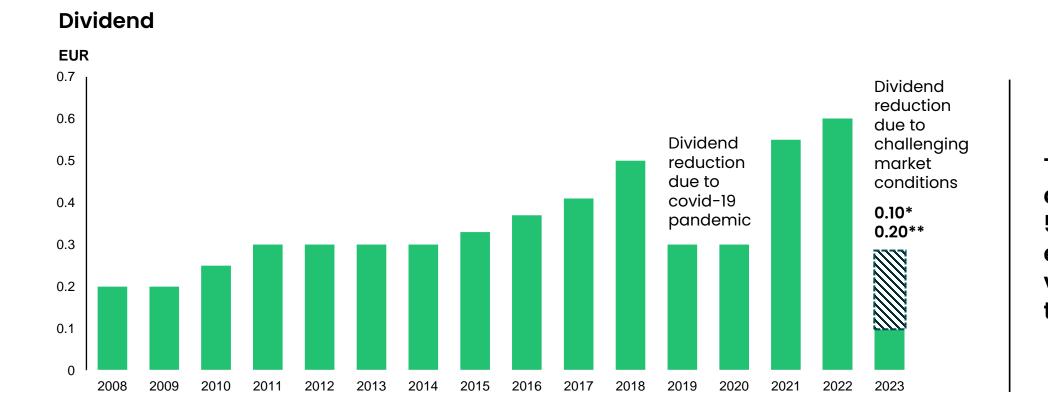
Depending on investment decisions



Strategic capexMaintenance and developmentBiological assets

Dividend development



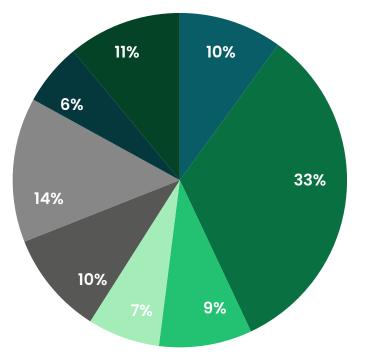


Target to distribute: 50% of EPS excluding fair valuation over the cycle

*Dividend of 0.10 EUR/share was paid in April 2024 **Proposal that the Board is authorised, at its discretion, to pay an additional 0.20 EUR/share until 31 December 2024

Cost structure in 2023



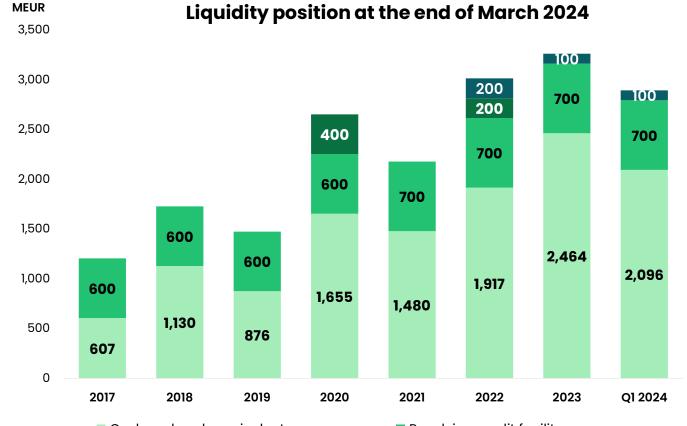


- Logistics and commissions
- Fiber
- Chemicals and fillers
- Energy
- Material
- Personnel
- Depreciation
- Other



Maintaining a strong liquidity position





- Liquidity at the end of March 2024:
 - €2.1 billion cash and cash equivalents
 - €700 million committed revolving credit facility fully undrawn
 - €100 million committed credit facility fully undrawn
 - Additionally, €1.1 billion statutory pension premium loans available
- No financial covenants
- Investment grades:
 - Fitch: BBB- (stable)
 - Moody's: Baa3 (stable) / P-3

Cash and cash equivalents
 Undrawn loan facilities

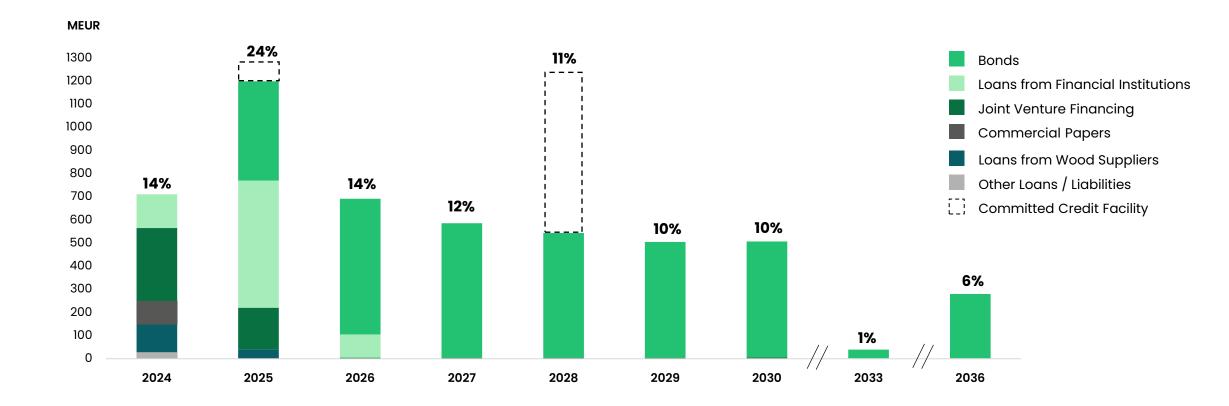
At the end of the period

Revolving credit facility
 Undrawn credit facilities

Maturity profile 2024

March 2024





Ownership distribution at the end of Q1 2024



	l	
	% of shares	% of votes
Solidium Oy*	10.7%	27.3%
FAM AB	10.2%	27.3%
Social Insurance Institution of Finland (KELA)	3.0%	10.0%
Finnish institutions (excl. Solidium and KELA)	10.8%	8.1%
Swedish institutions (excl. FAM)	1.2%	0.9%
Finnish private shareholders	3.8%	2.3%
Swedish private shareholders	2.9%	2.1%
ADR holders	1.6%	0.5%
Under nominee names (non-Finnish/non-Swedish shareholders)	55.7%	21.4%

Major shareholders at the end of Q1 2024



By voting power	A share	R share	% of shares	% of votes
1 Solidium Oy*	62 655 036	21 792 540	10,7 %	27,3 %
2 FAM AB**	63 123 386	17 000 000	10,2 %	27,3 %
3 Social Insurance Institution of Finland	23 825 086	0	3,0 %	10,0 %
4 Ilmarinen Mutual Pension Insurance Company	4 159 992	14 419 466	2,4 %	2,4 %
5 Varma Mutual Pension Insurance Company	5 163 018	1 140 874	0,8 %	2,2 %
6 MP-Bolagen i Vetlanda AB**	4 885 000	1 000 000	0,7 %	2,1 %
7 Elo Mutual Pension Insurance Company	2 010 000	9 667 000	1,5 %	1,3 %
8 Bergslaget's Healthcare Foundation	626 269	1 609 483	0,3 %	0,3 %
9 The State Pension Fund	0	5 600 000	0,7 %	0,2 %
10 Unionen (Swedish trade union)	0	3 062 750	0,4 %	0,1 %
11 The Society of Swedish Literature in Finland	0	3 000 000	0,4 %	0,1 %
12 Lannebo fonder	0	2 850 000	0,4 %	0,1 %
13 Avanza Pension Insurance	131 604	1 268 981	0,2 %	0,1 %
14 Danske Invest Finnish Equity Fund	0	2 237 000	0,3 %	0,1 %
15 Nordea Pro Finland Fund	0	1 827 525	0,2 %	0,1 %
16 EVLI Finland Select Fund	0	1 820 000	0,2 %	0,1 %
17 Investment Fund Seligson & Co OMX Helsinki 25	0	1 731 923	0,2 %	0,1 %
18 Nordea Bank ABP	0	1 702 976	0,2 %	0,1 %
19 Veritas Pension Insurance	0	1 652 708	0,2 %	0,1 %
20 SEB Investment Management	0	1 622 505	0,2 %	0,1 %
20 largest total	166 579 391	93 383 226	33,0 %	74,1 %

List has been compiled by the company, based upon shareholder information from Euroclear Finland Oy and Euroclear Sweden AB share registers and a database managed by Citibank, N.A. (as the company's ADR agent bank). This information includes only direct registered holdings, thus certain holdings (which may be substantial) of ordinary shares and ADRs held in nominee or brokerage accounts can not be included. The list is therefore incomplete.

*Entirely ow ned by the Finnish State. **As confirmed to Stora Enso.

Sponsored ADR Programme



Stora Enso has a sponsored Level I ADR programme in the US. The ADRs and Ordinary Shares trade on the OTCQX® Best Market.

Symbols	SEOAY, SEOFF, SEOJF
CUSIP	86210M106
Ratio	1 ADR : 1 Ordinary Shares
ADR depositary	Citibank

Share price information: www.citi.com/DR or www.otcqx.com

Contact information for Stora Enso ADR holders:

Citibank Shareholder Services Computershare P.O. Box 43077 Providence, Rhode Island 02940-3077 Email: citibank@shareholders-online.com

Direct dial: (781) 575-4555

Group Leadership Team





President and CEO Hans Sohlström



CFO, **Deputy CEO** Seppo Parvi

Kravi



Chief Strategy and Innovation Officer & Head of Sustainability Tobias Bäärnman



Packaging Solutions Ad Smit



Biomaterials Johanna Hagelberg



Legal Micaela Thorström



Packaging Materials Hannu Kasurinen



People and Culture & Head of Brand and Communication Katariina



Forest Per Lyrvall



Wood Products Lars Völkel

Board of Directors





Kari Jordan Chair



Håkan Buskhe Vice Chair



Elisabet Fleuriot



Helena Hedblom



Astrid Hermann



Christiane Kuehne



Richard Nilsson



Reima Rytsölä

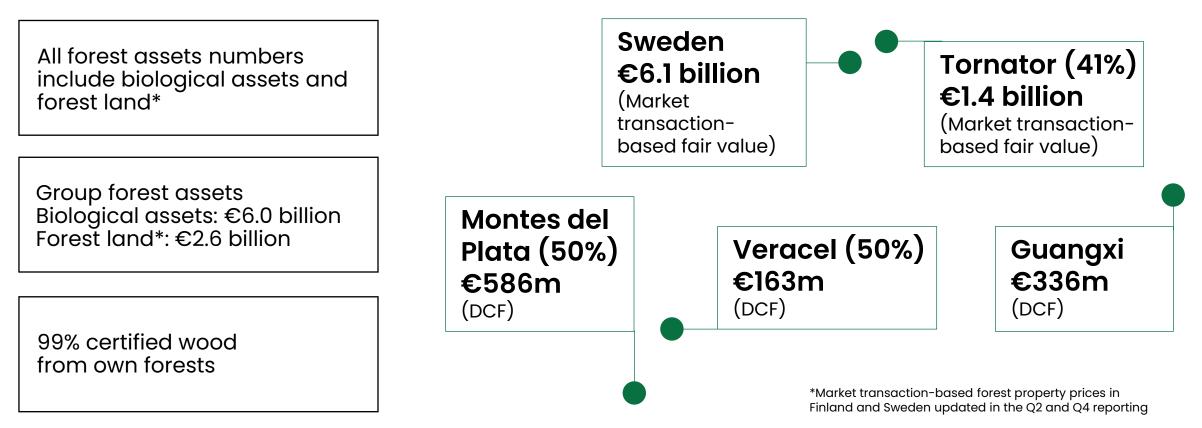


Forest assets and fair valuation

Stora Enso's global forest assets' fair values and valuation methodology by region Q124

Group forest assets fair value at €8.6 billion or €10.94 per share in Q1 2024





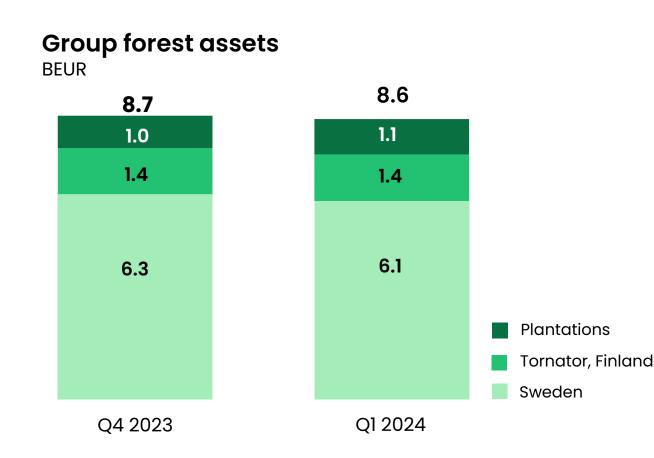
We are a leader in sustainable forest management across one of the world's largest private forest estates





Biannual market transaction-based fair valuation in Sweden and Finland





Sweden and Finland

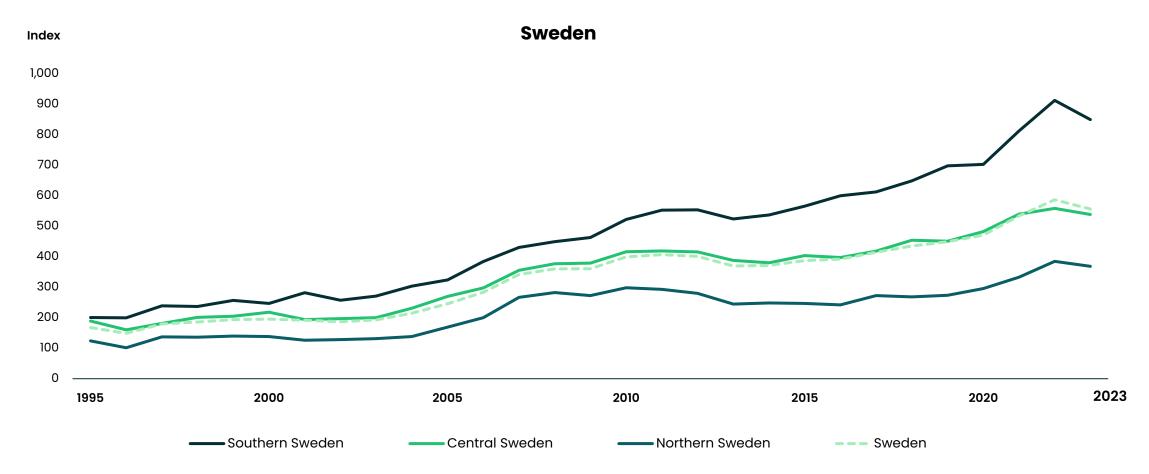
- Market transactions from our forest regions
- Volume weighted three year average transactions
- Standing stock and price data of the traded forest
- Biannual valuation process

Plantations

- DCF method
- Forest land at historical cost

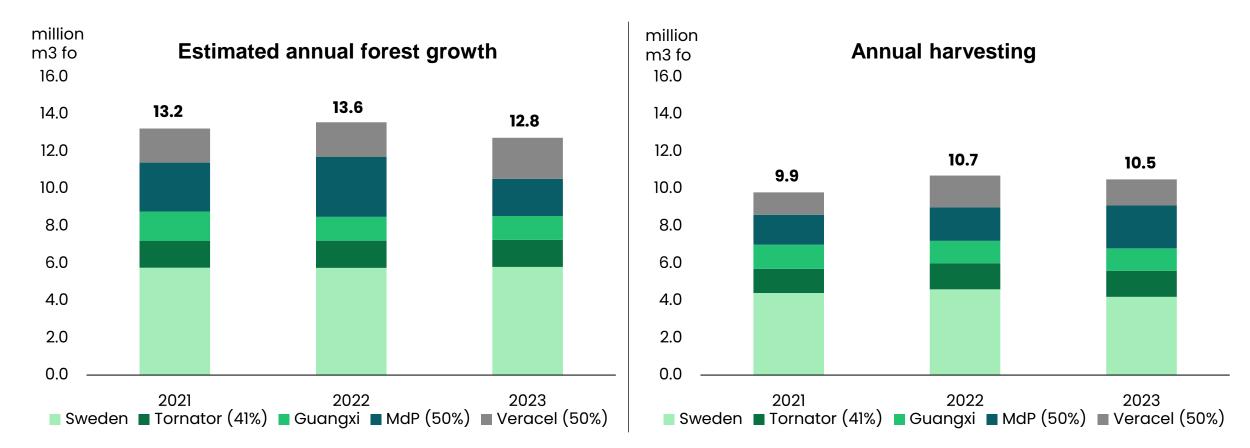
Forest property market transactionbased price development





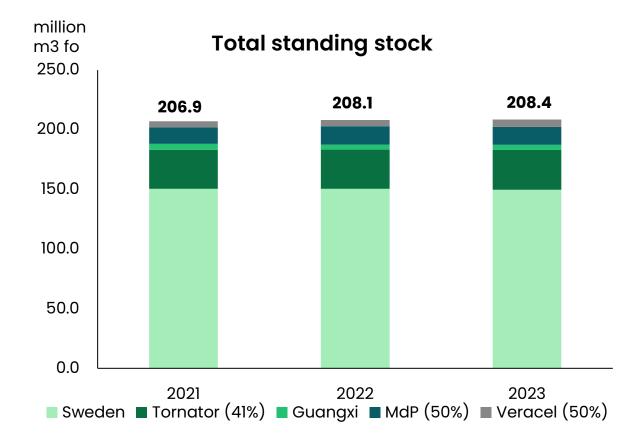
Annual harvesting represented 82% of the forest growth in 2023





Increasing standing forest stock









The renewable materials company